



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

September 12, 2018

Mr. David A. Fosson, General Manager  
American Centrifuge Plant  
American Centrifuge Operating, LLC  
Lead Cascade Facility and American  
Centrifuge Plant  
3930 U.S. Route 23 South  
P.O. Box 628  
Mail Stop 7560  
Piketon, OH 45661

SUBJECT: NRC INSPECTION REPORT NO. 07007003/2018001(DNMS) – AMERICAN  
CENTRIFUGE OPERATING, LLC, LEAD CASCADE FACILITY

Dear Mr. Fosson:

On August 23, 2018, the U.S. Nuclear Regulatory Commission (NRC) completed onsite inspection activities at the American Centrifuge Operating, LLC, Lead Cascade Facility in Piketon, Ohio. The purpose of the inspection was to determine whether decommissioning activities were conducted safely and in accordance with NRC requirements. During the inspection, the NRC inspector with the assistance of the Oak Ridge Institute for Science and Education (ORISE) performed independent confirmatory surveys of selected areas within the Lead Cascade Facility. The enclosed report presents the results of this inspection, which were discussed with you and members of your staff on August 23, 2018.

Based on the results of this inspection, no violations of NRC requirements were identified.

This letter and its enclosure will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* (CFR) 2.390, "Public Inspections, Exemptions, Requests for Withholding."

D. Fosson

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We will gladly discuss any questions you have concerning this inspection.

Sincerely,

**/RA/**

Michael A. Kunowski, Chief  
Materials Control, ISFSI, and  
Decommissioning Branch  
Division of Nuclear Materials Safety

Docket No. 070-07003  
License No. SNM-7003

Enclosure:  
IR 07007003/2018001(DNMS)

cc w/encl: Steven Toelle  
Kelly Wiehle  
Randall DeVault

Letter to David Fosson from Michael Kunowski dated September 12, 2018.

SUBJECT: NRC INSPECTION REPORT NO. 07007003/2018001(DNMS) – AMERICAN  
CENTRIFUGE OPERATING, LLC, LEAD CASCADE FACILITY

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**ADAMS Accession Number: ML18260A122**

OFFICE	RIII DNMS	E	RIII DNMS	E				
NAME	MCLearn:ps		MKunowski					
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U.S. NUCLEAR REGULATORY COMMISSION  
REGION III

Docket No: 070-07003

License No: SNM-7003

Report No.: 07007003/2018001

Enterprise Identifier: I-2018-001-0127

Licensee: American Centrifuge Operating, LLC

Facility: Lead Cascade Facility

Location: Piketon, Ohio

Dates: May 21, 2018, through August 23, 2018

Inspectors: Matthew C. Learn, Reactor Engineer

Approved by: Michael A. Kunowski, Chief  
Materials Control, ISFSI, and  
Decommissioning Branch  
Division of Nuclear Materials Safety

Enclosure

## **EXECUTIVE SUMMARY**

### **American Centrifuge Operating, Lead Cascade Facility NRC Inspection Report 07007003/2018001 May 21, 2018 through August 23, 2018**

The American Centrifuge Operating, Lead Cascade Facility is located on the U.S. Department of Energy Portsmouth Gaseous Diffusion Plant reservation. The licensee began operating the Lead Cascade Facility on June 6, 2007. On February 19, 2016, the licensee made the decision to cease operations at the Lead Cascade Facility and pursue termination of its Materials License from the Nuclear Regulatory Commission (NRC) following decommissioning activities.

Currently, the Lead Cascade Facility is shut-down and final status survey activities have been completed.

#### **Closeout Inspection and Survey**

- The NRC and ORISE independent confirmatory survey and laboratory results of selected areas did not identify anomalous results and were consistent with the licensee's final status survey data demonstrating compliance with the release criteria for unrestricted use. (Section 1.0)

## **Report Details**

### **1.0 Closeout Inspection and Survey (IP 83890)**

#### **1.1 Inspection Scope**

The NRC and ORISE performed independent confirmatory surveys of selected areas to assess whether the site has been decontaminated to acceptable radiological levels for unrestricted use.

#### **1.2 Observations and Findings**

The NRC and ORISE performed independent confirmatory surveys during the period of May 21-25, 2018. Confirmatory survey activities included alpha-plus-beta radiation floor scans, beta radiation drain scans, alpha radiation scans and direct measurements, and smear sampling, as applicable, in the X-3001 Train 2 North Utility Bay, X-3001 Train 3 North Utility Bay, X-3001 Trains 2 and 3 North Utility Bay Drains, X-3001 Train 1 Mezzanine, X-3001 Train 3 Mezzanine, X-3001 Train 3, X-3001 Train 3 Centrifuge Drains, X-3001 Train 6, X-7726 Centrifuge Training and Testing Facility, X-7726 Second Floor Utility Room, X-3012 Hot Shop, and X-7725 Loading/Storage Area.

The results of the ORISE surveys are contained in a document dated, August 16, 2018 (ADAMS Accession No. ML 18233A343).

No findings were identified.

#### **1.3 Conclusions**

The NRC and ORISE independent confirmatory survey and laboratory results of selected areas did not identify anomalous results or other conditions that preclude the final status survey data from demonstrating compliance with the release criteria for unrestricted use.

### **2.0 Exit Meeting**

The inspector presented the results of the inspection to Mr. Fosson and other members of the Lead Cascade Facility staff at a teleconference exit meeting on August 23, 2018. The licensee acknowledged the results presented and did not identify any of the information discussed as proprietary.

ATTACHMENT: SUPPLEMENTAL INFORMATION

## **SUPPLEMENTAL INFORMATION**

### **PARTIAL LIST OF PERSONS CONTACTED**

S. Toelle, Regulatory Affairs Director  
J. Thomspson, Radiation Protection Manager

### **INSPECTION PROCEDURES USED**

IP 83890      Closeout Inspection and Survey

### **ITEMS OPENED, CLOSED, AND DISCUSSED**

<u>Opened</u>	<u>Type</u>	<u>Summary</u>
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None

<u>Closed</u>	<u>Type</u>	<u>Summary</u>
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None

<u>Discussed</u>	<u>Type</u>	<u>Summary</u>
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None

## **PARTIAL LIST OF DOCUMENTS REVIEWED**

The following is a partial list of documents reviewed during the inspection. Inclusion on this list does not imply that the NRC inspectors reviewed the documents in their entirety, but rather that selected sections of portions of the documents were evaluated as part of the overall inspection effort. Inclusion of a document on this list does not imply NRC acceptance of the document or any part of it, unless this is stated in the body of the inspection report.

Final Closeout Survey Maps; dated 2017-2018

Final Status Survey Report for the American Centrifuge Lead Cascade Facility  
Decommissioning Project in Piketon, Ohio; April 19, 2018

General Survey Maps; dated 2017-2018

Independent Confirmatory Survey Summary and Results for the American Centrifuge Lead  
Cascade Facility in Piketon, Ohio; August 16, 2018

## **LIST OF ACRONYMS USED**

ADAMS	Agencywide Documents Access and Management System
DNMS	Division of Nuclear Materials Safety
IP	Inspection Procedure
NRC	U.S. Nuclear Regulatory Commission
ORISE	Oak Ridge Institute for Science and Education